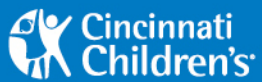


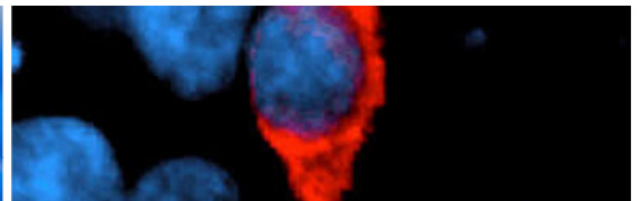
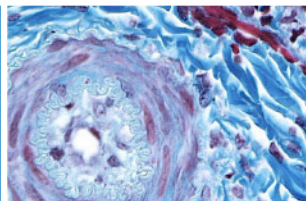
# Cincinnati Children's & Ben Gurion

## Pediatric Device Collaboration



Cincinnati  
Children's

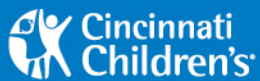
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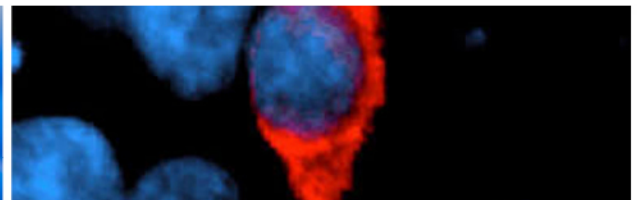
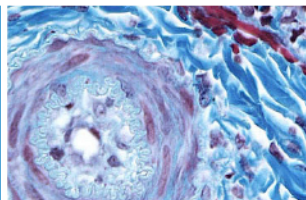
# Cincinnati Children's Overview

Our vision: to be the leader in improving child health

- Non-profit pediatric academic medical center, established in 1883
  - 577 Bed Hospital, 13 locations
  - US News Top 3 Pediatric Hospital
  - Highest Volume Pediatric Emergency Department in the United States
  - Aligned with University of Cincinnati
- Second highest recipient of NIH grants for pediatric research
  - ~1MM square feet of research space



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Commercialization



# Cincinnati Children's: the rankings

## Clinical

- 1 of 10 Honor Roll Pediatric Hospitals\*
- First in Digestive Disease; top 5 for 6/10 specialties

## Education

- #3 Dept of Pediatrics in US\*
- In class with Harvard and Penn)

## Research

- #2 NIH funding in pediatric research (second only to Boston Children's)
- \$307MM expended in FY11

## Infrastructure

- #1 in healthcare IT innovations\*\*

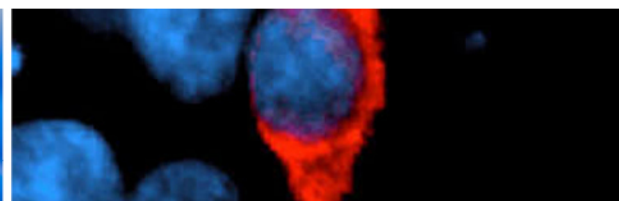
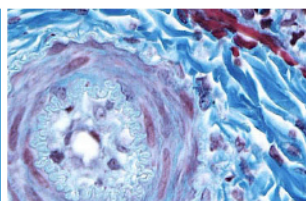
## Economic Impact

- 2008 study = \$2.7BB impact; 25k jobs
- 30% increase since 2008 = est \$3.5BB impact

\* US News & World Report  
\*\* Information Week

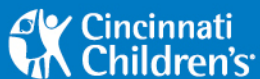


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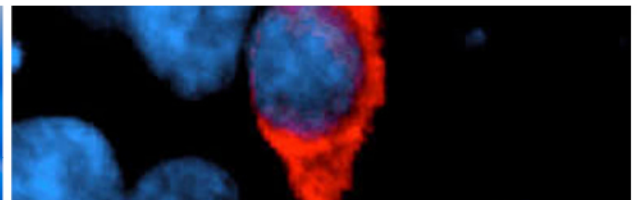
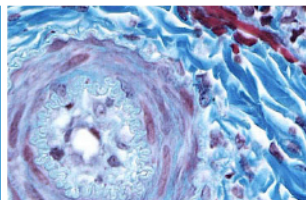


# Our Research Engine

- Breakthrough discovery to improve child health:
  - Sabin Polio Vaccine
  - Heart-lung machine
  - Surfactant
  - Rotarix
- Medical Research is the engine of CCHMC
  - 600 faculty and strong continued recruitment
  - Development of superior clinical programs based on research and discovery
- In FY2011, CCHMC expended over \$307 million on research – basic, clinical, translational - and received over \$150 million in sponsored research funding



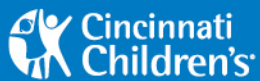
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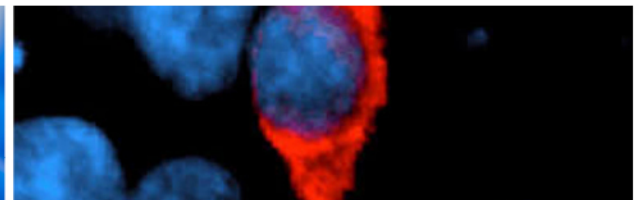
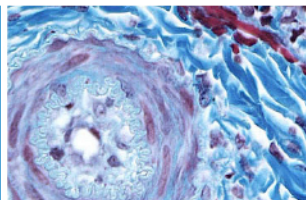
# Center for Technology Commercialization (CTC)



998	Inventions Disclosed
1366	Patent Apps Filed
361	Patents Issued
204	Licenses
4,949	IP Agreements
8	Start Up Companies
\$73MM	Revenues



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Commercialization



# Funding the Continuum

## Research Funds

- Basic & translational (Internal, Federal, Foundations & Industry)
- Scientific hypotheses

## Innovation Fund & BG3C Fund

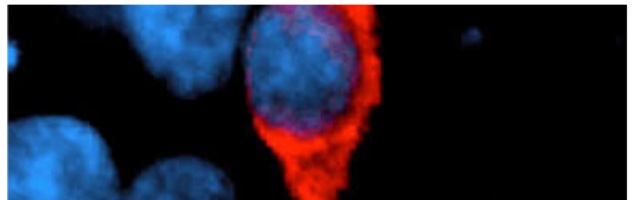
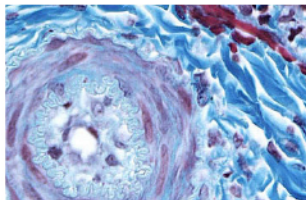
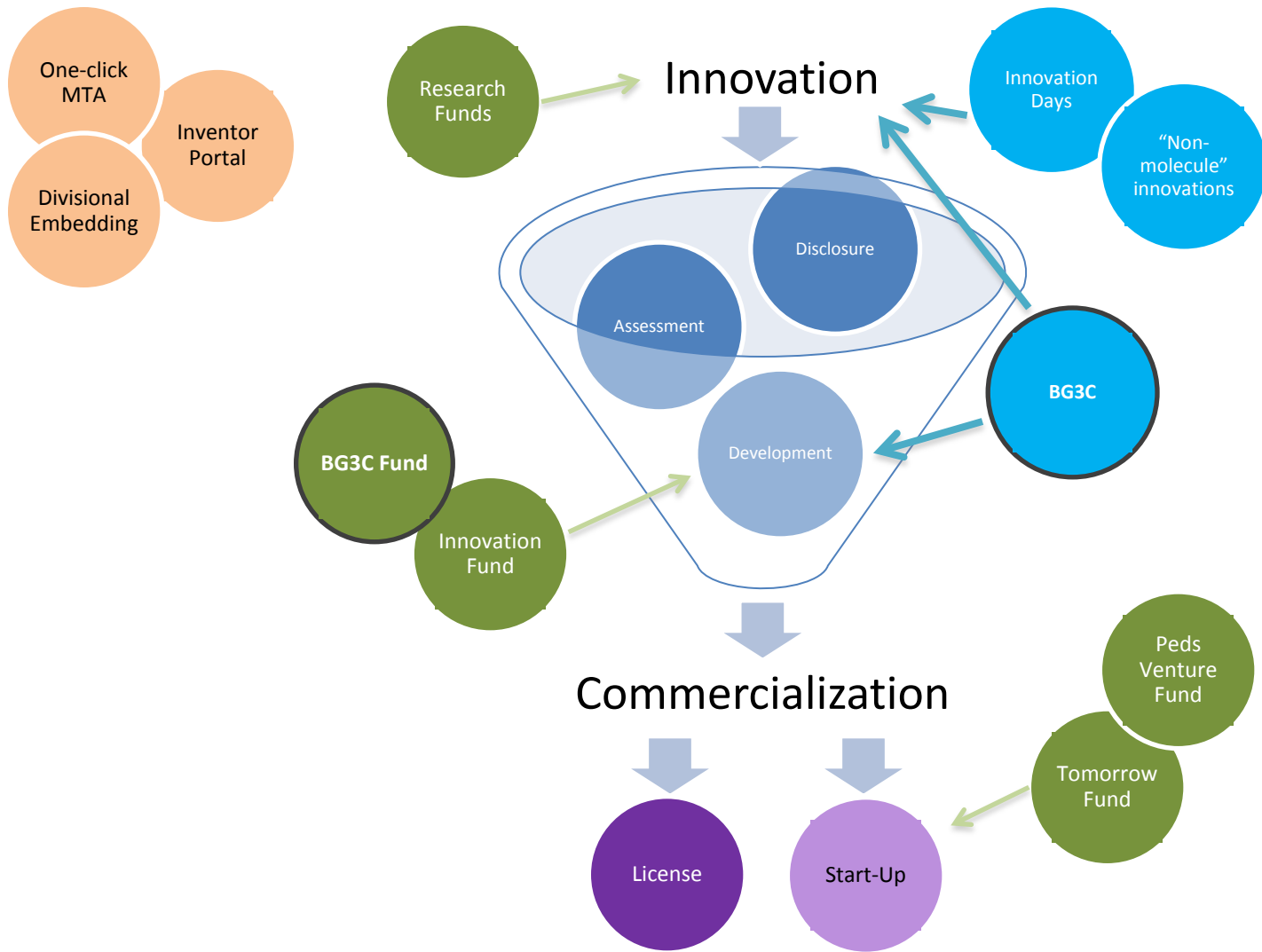
- Proof of Concept
- Drive value & commercial potential of “product”

## Tomorrow Fund

- Seed for Children’s Start-ups
- Progress to venture fundable company

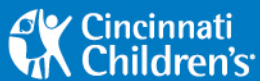
## Pediatric Venture Fund

- Institutional venture partnership
- Growth of pediatric companies & products to market

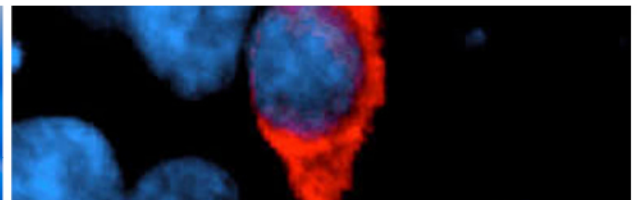
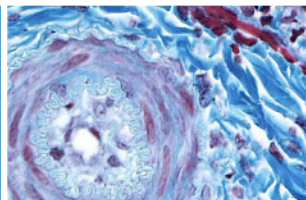


# Cincinnati Children's Commercialization Successes

- GSK: Rotarix™ rotavirus vaccine
- Multiple companies: hemofiltration system
- Shire: LAL therapy for metabolic diseases
- Ligocyte/PATH: norovirus and rotavirus vaccines
- AssureRx: neuropsychiatric pharmacogenomics
- SpineForm: spine staple for scoliosis
- Enable Injections: painless injection device



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# Israel Exchange Program (IEP)



- Israeli & Cincinnati Children's Physicians Jointly Treat Complex Patients
- Clinical & Research Fellowships
- Short-term Training
  - Physicians, Nurses, Students, Paraprofessionals & Administrators
- Collaborative Research Grants
- Co-sponsoring/Hosting Conferences
- Commercialization Collaborations





**Israel:**  
Entrepreneurialism  
innovation,  
education,  
research &  
technology



**CCHMC:**  
complex pediatric  
care, breakthrough  
research  
advancements,  
leader in education  
& quality  
improvement

- 
- ✓ Improve clinical care for children worldwide
  - ✓ Expertly train pediatric providers & scientists
  - ✓ Achieve breakthrough research discoveries
  - ✓ Invent, develop & commercialize products to improve child health globally



**Cincinnati  
Children's**<sup>®</sup>

Israel Exchange Program

# Our Collaboration: BG3C

## Cincinnati Children's

- World-class research & clinical capabilities
- Continuum of sustainable funding
- Acceleration of commercialization efforts across entire Cincinnati ecosystem
- IEP infrastructure & collaborations



## BG3C

- Accelerate the invention, developments and commercialization of medical devices to profoundly improve the care and treatment of pediatric patients in Israel, the US and globally



## BGU/BGN

- Entrepreneurial start-up culture
- Dynamic staff of engineers, researchers and scientists
- Cutting edge knowledge and capabilities across a broad spectrum of technological disciplines